

Format No: CP/TF/01

**TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade**

Lab ID : CP-2020-01-04-05 Date: 11-11-19  
Project Name : Improvements to Roads and Drains at SC/ST area of JP Colony  
Puttenahalli Nagenahalli and Surrounding areas in Ward No. 02 of  
Yelahanka Sub division  
Agency : M/s. Technical Manager(West), KRIDL, Bangaluru, 5th Block 17th Main  
Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010.  
Customer's Reference : BBMP/EE/YNK.D/W.O/158/2019-20  
Date of Receipt : 08-11-19  
Sample Type : Birla Super 53grade  
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,  
IS 4031 (Part 1,2 3,4,5, 6,11):1988  
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4  
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 4  
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6  
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5  
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5  
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6

Date of test : 09-11-19

Environmental Conditions during test : Temperature: 26°C  
Humidity: 72%

| SLNo. | Physical properties                                        | Results     | Requirement as per IS 12269: 2013 |
|-------|------------------------------------------------------------|-------------|-----------------------------------|
| 1     | Fineness by dry sieving (%)                                | 2.1         | —                                 |
| 2     | Finess by Air permeability method (m <sup>2</sup> /kg.Min) | 284.5       | 225m <sup>2</sup> /kg, Min        |
| 3     | Density (gm/cc)                                            | 3.13        | —                                 |
| 4     | Standard Consistency (%)                                   | 28%         | Not specified                     |
| 5     | Initial Setting time                                       | 180 minutes | Not less than 30 minutes          |
| 6     | Final Setting time                                         | 260 minutes | Not more than 600 minutes         |
| 7     | Soundness (Le Chatelier's Method)                          | 1mm         | Not more than 10 mm               |

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## TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-01-04-05 Date: 11-11-19  
Project Name : Improvements to Roads and Drains at SC/ST area of JP Colony  
Puttenahalli Nagenahalli and Surrounding areas in Ward No. 02 of  
Yelahanka Sub division  
Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block 17th  
Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-  
560010.  
Customer's Reference : BBMP/EE/YNK.D/W.O/158/2019-20  
Date of Receipt : 08-11-19  
Sample Type : 40mm down size coarse aggregate  
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates )  
IS: 2386 :1963(Part - 1,3,4) RA2011  
IS 2386 Part 1: Particle Size and Shape  
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption  
IS 2386 Part 4: Mechanical Properties  
Date of test : 08-11-19

### SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|------------|-----------|------------------------|-----------------------------------|------------------------------|-----------|-----------------------------|
| 1          | 80 mm     | 0                      | 0                                 | 0.0                          | 100       | 100                         |
| 2          | 40 mm     | 214                    | 214                               | 1.4                          | 98.6      | 90-100                      |
| 3          | 20 mm     | 7254                   | 7468                              | 49.8                         | 50.2      | 30-70                       |
| 4          | 10 mm     | 4442                   | 11910                             | 79.4                         | 20.6      | 10-35                       |
| 5          | 4.75 mm   | 2685                   | 14595                             | 97.3                         | 2.7       | 0-5                         |
| 6          | Pan       | 405                    | 15000                             | 100.0                        | 0         | ---                         |

Page 1/2

AE-2

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## TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2020-01-04-05 Date: 10-11-19  
Project Name : Improvements to Roads and Drains at SC/ST area of JP Colony  
Puttenahalli Nagenahalli and Surrounding areas in Ward No. 02 of  
Yelahanka Sub division  
Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block 17th Main  
Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010.  
Customer Reference : BBMP/EE/YNK.D/W.O/158/2019-20  
Date of Receipt : 08-11-19  
Sample Type/ Size : 20mm down size coarse aggregate  
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates )  
IS: 2386 :1963(Part - 1,3,4) RA2011  
IS 2386 Part 1: Particle Size and Shape  
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption  
IS 2386 Part 4: Mechanical Properties  
Date of test : 08-11-19

### SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|------------|-----------|------------------------|-----------------------------------|------------------------------|-----------|-----------------------------|
| 1          | 40 mm     | 0                      | 0                                 | 0                            | 100       | 100                         |
| 2          | 20 mm     | 237                    | 237                               | 4.7                          | 95.3      | 90-100                      |
| 3          | 10 mm     | 2544                   | 2781                              | 55.6                         | 44.4      | 25-55                       |
| 4          | 4.75 mm   | 2107                   | 4888                              | 97.8                         | 2.2       | 0-10                        |
| 5          | Pan       | 112                    | 5000                              | 100                          | 0         | -                           |

Page 1/2

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**TEST REPORT OF FINE AGGREGATE**

Lab ID : CP-2020-01-04-05 Date: 10-11-19

Project Name : Improvements to Roads and Drains at SC/ST area of JP Colony Puttenahalli  
Nagenahalli and Surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block 17th Main Shivakumar  
Swamy Building, Bhashyam Circle Bangalore-560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/158/2019-20

Date of Receipt : 08-11-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)  
IS: 2386 : 1963 (Part - 1, 3) RA2012  
IS 2386 Part 1: Particle Size and Shape  
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 08-11-19

Total weight taken : 1000 grams

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 |                 |                  |                 |
|-------|------------|-----------------------|----------------------------------|------------------------------|-----------|--------------------------------|-----------------|------------------|-----------------|
|       |            |                       |                                  |                              |           | Grading Zone I                 | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1     | 10 mm      | 0                     | 0                                | 0.0                          | 100.0     | 100                            | 100             | 100              | 100             |
| 2     | 4.75 mm    | 27                    | 27                               | 2.7                          | 97.3      | 90-100                         | 90-100          | 90-100           | 95-100          |
| 3     | 2.36 mm    | 55                    | 82                               | 8.2                          | 91.8      | 60-95                          | 75-100          | 85-100           | 95-100          |
| 4     | 1.18 mm    | 239                   | 321                              | 32.1                         | 67.9      | 30-70                          | 55-90           | 75-100           | 90-100          |
| 5     | 600 micron | 205                   | 526                              | 52.6                         | 47.4      | 15-34                          | 35-59           | 60-79            | 80-100          |
| 6     | 300 micron | 203                   | 729                              | 72.9                         | 27.1      | 5-20                           | 8-30            | 12-40            | 15-50           |
| 7     | 150 micron | 191                   | 920                              | 92.0                         | 8.0       | 0-10                           | 0-10            | 0-10             | 0-15            |
| 8     | Pan        | 80                    | 1000                             | 100.0                        | 0.0       | ---                            | ---             | ---              | ---             |

Result : The tested Sample Conforms to Grading Zone II

Page 1/2

AE-2  
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Swamy Building  
Bhashyam Circle  
Bangalore-560010



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## TEST RESULTS OF STEEL

Lab ID : CP-2020-01-04-05 Date: 13-11-19  
Project Name : Improvements to Roads and Drains at SC/ST area of JP Colony Puttenahalli  
Nagenahalli and Surrounding areas in Ward No. 02 of Yelahanka Sub division  
Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block 17th Main  
Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010.  
Customer's Reference : BBMP/EE/YNK.D/W.O/158/2019-20  
Date of Receipt : 12-11-19  
Sample Type : Sunvik  
Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.  
Date of test: : 12-11-19

| Sl.No | Identification of sample | Grade of the sample | Diameter of the steel bar | Weight of the sample | Yield stress         | Tensile strength     | Elongation | Bend test    | Rebend test  |
|-------|--------------------------|---------------------|---------------------------|----------------------|----------------------|----------------------|------------|--------------|--------------|
|       |                          |                     | (mm)                      | (kg/m)               | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> ) | (%)        |              |              |
| 1     | Sunvik                   | Fe500               | 8                         | 0.391                | 512                  | 652                  | 20.0%      | Satisfactory | Satisfactory |
| 2     | Sunvik                   | Fe500               | 12                        | 0.888                | 544                  | 668                  | 20.0%      | Satisfactory | Satisfactory |

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Page 1/1  
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## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-05 Date: 22/11/2019

Project Name : Improvements to Roads and Drains at SC/ST area of JP Colony Puttenahalli Nagenahalli and Surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager(West), KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/158/2019-20

Date of Receipt : 18-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/11/2019

| Date of Test : 22/11/2019 |                            |                   |                 |                 |                           |                      |                      |              |                      |                              |
|---------------------------|----------------------------|-------------------|-----------------|-----------------|---------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
| SL No.                    | Identification Mark        | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|                           |                            |                   |                 |                 | (mm)                      | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1                         | Drain Bottom Slab Concrete | M20               | 15/11/2019      | 22/11/2019      | 151.17 X                  | 22951                | 8.233                | 429.9        | 18.7                 | 18.6                         |
|                           |                            |                   |                 |                 | 151.82 X                  |                      |                      |              |                      |                              |
|                           |                            |                   |                 |                 | 151.32                    |                      |                      |              |                      |                              |
| 2                         | Drain Bottom Slab Concrete | M20               | 15/11/2019      | 22/11/2019      | 151.42 X                  | 22897                | 8.724                | 417.7        | 18.2                 |                              |
|                           |                            |                   |                 |                 | 151.22 X                  |                      |                      |              |                      |                              |
|                           |                            |                   |                 |                 | 150.15                    |                      |                      |              |                      |                              |
| 3                         | Drain Bottom Slab Concrete | M20               | 15/11/2019      | 22/11/2019      | 151.76 X                  | 22893                | 8.335                | 434.3        | 19.0                 |                              |
|                           |                            |                   |                 |                 | 150.85 X                  |                      |                      |              |                      |                              |
|                           |                            |                   |                 |                 | 151.71                    |                      |                      |              |                      |                              |

AE-2  
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Page 1/1  
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Asst. Executive Engineer  
Yelahanka Sub Division  
Bangalore - 560010



## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-05  
Project Name : Improvements to Roads and Drains at SC/ST area of JP Colony Puttenahalli Nagenahalli and Surrounding areas in Ward No. 02 of Yelahanka Sub division  
Agency : M/s. Technical Manager(West), KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010.  
Customer's Reference : BBMP/EE/YNK.D/W.O/158/2019-20  
Date of Receipt : 18-11-19  
Customer ID : Drain Bottom Slab Concrete  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 7 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C1.5  
Date of test : 22/11/2019

| Sl. No. | Identification Mark        | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|----------------------------|-------------------|-----------------|-----------------|---------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                            |                   |                 |                 | (mm)                      | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Bottom Slab Concrete | M20               | 15/11/2019      | 22/11/2019      | 149.23 X                  | 22556                | 8.233                | 414.8        | 18.4                 | 18.3                         |
|         |                            |                   |                 |                 | 151.15 X                  |                      |                      |              |                      |                              |
|         |                            |                   |                 |                 | 150.74                    |                      |                      |              |                      |                              |
| 2       | Drain Bottom Slab Concrete | M20               | 15/11/2019      | 22/11/2019      | 150.58 X                  | 22835                | 8.724                | 424.0        | 18.6                 |                              |
|         |                            |                   |                 |                 | 151.65 X                  |                      |                      |              |                      |                              |
|         |                            |                   |                 |                 | 151.54                    |                      |                      |              |                      |                              |
| 3       | Drain Bottom Slab Concrete | M20               | 15/11/2019      | 22/11/2019      | 151.54 X                  | 22842                | 8.335                | 413.0        | 18.1                 |                              |
|         |                            |                   |                 |                 | 150.73 X                  |                      |                      |              |                      |                              |
|         |                            |                   |                 |                 | 149.68                    |                      |                      |              |                      |                              |

Chaitanya A.E.E

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Page 1/1  
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## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-05 Date: 27/11/2019

Project Name : Improvements to Roads and Drains at SC/ST area of JP Colony Puttenahalli Nagenahalli and Surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/158/2019-20

Date of Receipt : 22-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/11/2019

| Sl. No. | Identification Mark      | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|--------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                          |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Side Wall Concrete | M20               | 20/11/2019      | 27/11/2019      | 151.40 X<br>149.15 X<br>149.03 | 22581                | 8.233                | 410.9        | 18.2                 | 18.4                         |
| 2       | Drain Side Wall Concrete | M20               | 20/11/2019      | 27/11/2019      | 149.18 X<br>151.20 X<br>151.86 | 22555                | 8.724                | 421.0        | 18.7                 |                              |
| 3       | Drain Side Wall Concrete | M20               | 20/11/2019      | 27/11/2019      | 151.04 X<br>149.54 X<br>150.38 | 22586                | 8.335                | 415.3        | 18.4                 |                              |

AE-02

AE-2  
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## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-05 Date: 27/11/2019

Project Name : Improvements to Roads and Drains at SC/ST area of JP Colony Puttenahalli Nagenahalli and Surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/158/2019-20

Date of Receipt : 22-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/11/2019

| Date of test : 27/11/2019 |                          |                   |                 |                 |                           |                      |                      |              |                      |                              |
|---------------------------|--------------------------|-------------------|-----------------|-----------------|---------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
| SL No.                    | Identification Mark      | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|                           |                          |                   |                 |                 | (mm)                      | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1                         | Drain Side Wall Concrete | M20               | 20/11/2019      | 27/11/2019      | 151.66 X                  | 22601                | 8.233                | 425.0        | 18.8                 | 18.6                         |
|                           |                          |                   |                 |                 | 149.03 X                  |                      |                      |              |                      |                              |
|                           |                          |                   |                 |                 | 149.73                    |                      |                      |              |                      |                              |
| 2                         | Drain Side Wall Concrete | M20               | 20/11/2019      | 27/11/2019      | 150.89 X                  | 22490                | 8.724                | 409.1        | 18.2                 |                              |
|                           |                          |                   |                 |                 | 149.05 X                  |                      |                      |              |                      |                              |
|                           |                          |                   |                 |                 | 150.36                    |                      |                      |              |                      |                              |
| 3                         | Drain Side Wall Concrete | M20               | 20/11/2019      | 27/11/2019      | 149.53 X                  | 22296                | 8.335                | 416.1        | 18.7                 |                              |
|                           |                          |                   |                 |                 | 149.11 X                  |                      |                      |              |                      |                              |
|                           |                          |                   |                 |                 | 149.53                    |                      |                      |              |                      |                              |

AE-02

AE-2  
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Page 1/1  
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## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-05 Date: 27/11/2019

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Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/158/2019-20

Date of Receipt : 22-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/11/2019

| SL No. | Identification Mark      | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|--------|--------------------------|-------------------|-----------------|-----------------|---------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|        |                          |                   |                 |                 | (mm)                      | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1      | Drain Side Wall Concrete | M20               | 20/11/2019      | 27/11/2019      | 150.26 X                  | 22818                | 8.233                | 425.9        | 18.7                 | 18.5                         |
|        |                          |                   |                 |                 | 151.85 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 149.35                    |                      |                      |              |                      |                              |
| 2      | Drain Side Wall Concrete | M20               | 20/11/2019      | 27/11/2019      | 150.71 X                  | 22585                | 8.724                | 411.1        | 18.2                 |                              |
|        |                          |                   |                 |                 | 149.86 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 149.82                    |                      |                      |              |                      |                              |
| 3      | Drain Side Wall Concrete | M20               | 20/11/2019      | 27/11/2019      | 151.30 X                  | 22829                | 8.335                | 428.6        | 18.8                 |                              |
|        |                          |                   |                 |                 | 150.88 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 150.80                    |                      |                      |              |                      |                              |

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Page 1/1  
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Lab ID : CP-2020-01-04-05 Date: 27/11/2019

Project Name : Improvements to Roads and Drains at SC/ST area of JP Colony Puttenahalli Nagenahalli and Surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/158/2019-20

Date of Receipt : 22-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/11/2019

| SL No. | Identification Mark      | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|--------|--------------------------|-------------------|-----------------|-----------------|---------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|        |                          |                   |                 |                 | (mm)                      | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1      | Drain Side Wall Concrete | M20               | 20/11/2019      | 27/11/2019      | 151.29 X                  | 22908                | 8.233                | 431.8        | 18.9                 | 18.8                         |
|        |                          |                   |                 |                 | 151.41 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 150.11                    |                      |                      |              |                      |                              |
| 2      | Drain Side Wall Concrete | M20               | 20/11/2019      | 27/11/2019      | 149.87 X                  | 22419                | 8.724                | 422.7        | 18.9                 |                              |
|        |                          |                   |                 |                 | 149.60 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 150.94                    |                      |                      |              |                      |                              |
| 3      | Drain Side Wall Concrete | M20               | 20/11/2019      | 27/11/2019      | 151.33 X                  | 22721                | 8.335                | 426.5        | 18.8                 |                              |
|        |                          |                   |                 |                 | 150.14 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 150.44                    |                      |                      |              |                      |                              |

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Page 1/1  
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## TEST REPORT OF CEMENT CONCRETE CUBES

**Lab ID** : CP-2020-01-04-05 **Date:** 27/11/2019

**Project Name** : Improvements to Roads and Drains at SC/ST area of JP Colony Puttenahalli Nagenahalli and Surrounding areas in Ward No. 02 of Yelahanka Sub division

**Agency** : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010.

**Customer's Reference** : BBMP/EE/YNK.D/W.O/158/2019-20

**Date of Receipt** : 22-11-19

**Customer ID** : Drain Side Wall Concrete

**Sample Type /Size** : 150X150X150 mm

**Sample grade/Age** : M20 / 7 Days Compressive Strength

**Reference to BIS codes** : IS: 516 - 1959 Methods of Tests for Strength of Concrete C1.5

**Date of test** : 27/11/2019

| Date of test : 27/11/2019 |                          |                   |                 |                 |                           |                      |                      |              |                      |                              |  |
|---------------------------|--------------------------|-------------------|-----------------|-----------------|---------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|--|
| SL No.                    | Identification Mark      | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |  |
|                           |                          |                   |                 |                 | (mm)                      | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |  |
| 1                         | Drain Side Wall Concrete | M20               | 20/11/2019      | 27/11/2019      | 150.13 X                  | 22700                | 8.233                | 417.1        | 18.4                 | 18.6                         |  |
|                           |                          |                   |                 |                 | 151.20 X                  |                      |                      |              |                      |                              |  |
|                           |                          |                   |                 |                 | 149.82                    |                      |                      |              |                      |                              |  |
| 2                         | Drain Side Wall Concrete | M20               | 20/11/2019      | 27/11/2019      | 150.68 X                  | 22768                | 8.724                | 420.4        | 18.5                 |                              |  |
|                           |                          |                   |                 |                 | 151.10 X                  |                      |                      |              |                      |                              |  |
|                           |                          |                   |                 |                 | 149.62                    |                      |                      |              |                      |                              |  |
| 3                         | Drain Side Wall Concrete | M20               | 20/11/2019      | 27/11/2019      | 151.12 X                  | 22678                | 8.335                | 429.0        | 18.9                 |                              |  |
|                           |                          |                   |                 |                 | 150.07 X                  |                      |                      |              |                      |                              |  |
|                           |                          |                   |                 |                 | 149.13                    |                      |                      |              |                      |                              |  |

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*R. Kartik Rechan*  
**R KARTHIK RECHAN**  
Authorized Signatory  
Quality Manager



*Asst. Engineer*  
*Yelahanka Sub Division*



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## TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2020-01-04-05 Date: 27-11-19  
Project Name : Improvements to Roads and Drains at SC/ST area of JP Colony Puttenahalli Nagenahalli and Surrounding areas in Ward No. 02 of Yelahanka Sub division  
Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010.  
Customer's Reference : BBMP/EE/YNK.D/W.O/158/2019-20  
Date of Receipt : 23-11-19  
Sample Type /Size : Precast Cover Slab(100mm)  
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete  
Date of test : 23/11/2019

| SL No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area    | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|--------|---------------------|----------------------|--------------------|--------------------|---------|--------------|---------------------------|-----------------------------------------|--------------------------------------|
|        |                     | (mm)                 | (mm)               | (kg)               | (Sq.mm) | (KN)         | (N/mm <sup>2</sup> )      | (N/mm <sup>2</sup> )                    | (N/mm <sup>2</sup> )                 |
| 1      | Cover Slab-1        | 75.51                | 100.48             | 1.116              | 4477    | 80.9         | 18.1                      | 16.8                                    | 21.0                                 |
| 2      | Cover Slab-2        | 75.49                | 100.52             | 1.122              | 4475    | 82.3         | 18.4                      | 17.1                                    | 21.4                                 |
| 3      | Cover Slab-3        | 75.50                | 100.51             | 1.118              | 4476    | 81.5         | 18.2                      | 16.9                                    | 21.2                                 |

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Page 1/1  
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Division



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## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-05 Date: 30/11/2019

Project Name : Improvements to Roads and Drains at SC/ST area of JP Colony Puttenahalli Nagenahalli and Surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager(West), KRIDL, Bangalore, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/158/2019-20

Date of Receipt : 25-11-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2019

| SL No. | Identification Mark      | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|--------|--------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|        |                          |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1      | Cement Concrete Pavement | M30               | 23/11/2019      | 30/11/2019      | 149.65 X<br>151.79 X<br>150.41 | 22715                | 8.817                | 573.6        | 25.3                 | 25.7                         |
| 2      | Cement Concrete Pavement | M30               | 23/11/2019      | 30/11/2019      | 151.24 X<br>149.80 X<br>150.08 | 22656                | 8.539                | 609.0        | 26.9                 |                              |
| 3      | Cement Concrete Pavement | M30               | 23/11/2019      | 30/11/2019      | 149.49 X<br>150.73 X<br>150.08 | 22532                | 8.045                | 562.4        | 25.0                 |                              |

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## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-05 Date: 30/11/2019

Project Name : Improvements to Roads and Drains at SC/ST area of JP Colony Puttenahalli Nagenahalli and Surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/158/2019-20

Date of Receipt : 25-11-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2019

| SL No. | Identification Mark      | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|--------|--------------------------|-------------------|-----------------|-----------------|---------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|        |                          |                   |                 |                 | (mm)                      | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1      | Cement Concrete Pavement | M30               | 23/11/2019      | 30/11/2019      | 150.21 X                  | 22685                | 8.817                | 572.3        | 25.2                 | 25.4                         |
|        |                          |                   |                 |                 | 151.02 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 151.54                    |                      |                      |              |                      |                              |
| 2      | Cement Concrete Pavement | M30               | 23/11/2019      | 30/11/2019      | 151.89 X                  | 23073                | 8.539                | 622.7        | 27.0                 |                              |
|        |                          |                   |                 |                 | 151.90 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 150.27                    |                      |                      |              |                      |                              |
| 3      | Cement Concrete Pavement | M30               | 23/11/2019      | 30/11/2019      | 151.81 X                  | 22788                | 8.045                | 549.3        | 24.1                 |                              |
|        |                          |                   |                 |                 | 150.11 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 151.54                    |                      |                      |              |                      |                              |

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## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-05 Date: 30/11/2019  
Project Name : Improvements to Roads and Drains at SC/ST area of JP Colony Puttenahalli Nagenahalli and Surrounding areas in Ward No. 02 of Yelahanka Sub division  
Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010.  
Customer's Reference : BBMP/EE/YNK.D/W.O/158/2019-20  
Date of Receipt : 25-11-19  
Customer ID : Cement Concrete Pavement  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M30 / 7 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2019

30/11/2019

| SL No. | Identification Mark      | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|--------|--------------------------|-------------------|-----------------|-----------------|---------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|        |                          |                   |                 |                 | (mm)                      |                      |                      |              |                      |                              |
| 1      | Cement Concrete Pavement | M30               | 23/11/2019      | 30/11/2019      | 150.58 X                  | 22534                | 8.817                | 583.7        | 25.9                 | 25.8                         |
|        |                          |                   |                 |                 | 149.65 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 150.64                    |                      |                      |              |                      |                              |
| 2      | Cement Concrete Pavement | M30               | 23/11/2019      | 30/11/2019      | 149.38 X                  | 22627                | 8.539                | 609.0        | 26.9                 |                              |
|        |                          |                   |                 |                 | 151.48 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 151.05                    |                      |                      |              |                      |                              |
| 3      | Cement Concrete Pavement | M30               | 23/11/2019      | 30/11/2019      | 149.99 X                  | 22583                | 8.045                | 557.6        | 24.7                 |                              |
|        |                          |                   |                 |                 | 150.57 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 150.77                    |                      |                      |              |                      |                              |

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**TEST REPORT OF CEMENT CONCRETE CUBES**

Lab ID : CP-2020-01-04-05 Date: 21/12/2019

Project Name : Improvements to Roads and Drains at SC/ST area of JP Colony Puttenahalli Nagenahalli and Surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010.

Customer's Reference : BBMP/EE/YNK.D/W.O/158/2019-20

Date of Receipt : 25-11-19

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C1.5

Date of test : 21/12/2019

| SL No. | Identification Mark      | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|--------|--------------------------|-------------------|-----------------|-----------------|---------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|        |                          |                   |                 |                 | (mm)                      | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1      | Cement Concrete Pavement | M30               | 23/11/2019      | 21/12/2019      | 150.73 X                  | 22667                | 8.676                | 757.9        | 33.4                 | 33.1                         |
|        |                          |                   |                 |                 | 150.38 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 149.56                    |                      |                      |              |                      |                              |
| 2      | Cement Concrete Pavement | M30               | 23/11/2019      | 21/12/2019      | 151.02 X                  | 22589                | 8.409                | 727.6        | 32.2                 |                              |
|        |                          |                   |                 |                 | 149.58 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 151.16                    |                      |                      |              |                      |                              |
| 3      | Cement Concrete Pavement | M30               | 23/11/2019      | 21/12/2019      | 151.39 X                  | 22838                | 8.274                | 771.5        | 33.8                 |                              |
|        |                          |                   |                 |                 | 150.85 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 150.15                    |                      |                      |              |                      |                              |

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Page 1/1  
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## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-05 Date: 30/11/2019  
Project Name : Improvements to Roads and Drains at SC/ST area of JP Colony Puttenahalli Nagenahalli and  
Agency : Surrounding areas in Ward No. 02 of Yelahanka Sub division  
Customer's Reference : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block 17th Main Shivakumar Swamy Building,  
Date of Receipt : Bhashyam Circle Bangalore-560010.  
Customer ID : BBMP/EE/YNK.D/W.O/158/2019-20  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M30 / 7 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete C.I.S  
Date of test : 30/11/2019

| SL No. | Identification Mark      | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|--------|--------------------------|-------------------|-----------------|-----------------|---------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|        |                          |                   |                 |                 | (mm)                      | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1      | Cement Concrete Pavement | M30               | 23/11/2019      | 30/11/2019      | 151.61 X                  | 22659                | 8.817                | 589.1        | 26.0                 | 25.6                         |
|        |                          |                   |                 |                 | 149.45 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 151.13                    |                      |                      |              |                      |                              |
| 2      | Cement Concrete Pavement | M30               | 23/11/2019      | 30/11/2019      | 151.06 X                  | 22523                | 8.539                | 599.6        | 26.6                 |                              |
|        |                          |                   |                 |                 | 149.10 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 151.04                    |                      |                      |              |                      |                              |
| 3      | Cement Concrete Pavement | M30               | 23/11/2019      | 30/11/2019      | 150.45 X                  | 22790                | 8.045                | 551.0        | 24.2                 |                              |
|        |                          |                   |                 |                 | 151.48 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 150.37                    |                      |                      |              |                      |                              |

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## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2020-01-04-05  
Project Name : Improvements to Roads and Drains at SC/ST area of JP Colony Puttenahalli Nagenahalli and Surrounding areas in Ward No. 02 of Yelahanka Sub division  
Agency : M/s. Technical Manager (West), KRIDL, Bangalore, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010.  
Customer's Reference : BBMP/EE/YNK.D/W.O/158/2019-20  
Date of Receipt : 25-11-19  
Customer ID : Cement Concrete Pavement  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M30 / 7 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5  
Date of test : 30/11/2019

| SL No. | Identification Mark      | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen<br>(mm) | Cross sectional area<br>(Sq.mm) | Weight of the sample<br>(kg) | Failure Load<br>(KN) | Compressive strength<br>(N/mm <sup>2</sup> ) | Average Compressive Strength<br>(N/mm <sup>2</sup> ) |
|--------|--------------------------|-------------------|-----------------|-----------------|-----------------------------------|---------------------------------|------------------------------|----------------------|----------------------------------------------|------------------------------------------------------|
| 1      | Cement Concrete Pavement | M30               | 23/11/2019      | 30/11/2019      | 149.43 X<br>150.81 X<br>149.98    | 22535                           | 8.817                        | 565.9                | 25.1                                         | 25.5                                                 |
| 2      | Cement Concrete Pavement | M30               | 23/11/2019      | 30/11/2019      | 150.17 X<br>149.01 X<br>151.97    | 22378                           | 8.539                        | 598.9                | 26.8                                         |                                                      |
| 3      | Cement Concrete Pavement | M30               | 23/11/2019      | 30/11/2019      | 151.42 X<br>150.42 X<br>150.56    | 22776                           | 8.045                        | 561.8                | 24.7                                         |                                                      |

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Page 1/1  
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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

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## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID

: CP-2020-01-04-05

Date: 21/12/2019

Project Name

: Improvements to Roads and Drains at SC/ST area of JP Colony Puttenahalli Nagenahalli and Surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency

: M/s. Technical Manager(West), KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore-560010.

Customer's Reference

: BBMP/EE/YNK.D/W.O/158/2019-20

Date of Receipt

: 25-11-19

Customer ID

: Cement Concrete Pavement

Sample Type /Size

: 150X150X150 mm

Sample grade/Age

: M30 / 28 Days Compressive Strength

Reference to BIS codes

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test

: 21/12/2019

| SL No. | Identification Mark      | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|--------|--------------------------|-------------------|-----------------|-----------------|---------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|        |                          |                   |                 |                 | (mm)                      | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1      | Cement Concrete Pavement | M30               | 23/11/2019      | 21/12/2019      | 149.75 X                  | 22612                | 8.676                | 751.5        | 33.2                 | 33.2                         |
|        |                          |                   |                 |                 | 150.99 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 149.45                    |                      |                      |              |                      |                              |
| 2      | Cement Concrete Pavement | M30               | 23/11/2019      | 21/12/2019      | 149.98 X                  | 22545                | 8.409                | 739.2        | 32.8                 |                              |
|        |                          |                   |                 |                 | 150.32 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 150.73                    |                      |                      |              |                      |                              |
| 3      | Cement Concrete Pavement | M30               | 23/11/2019      | 21/12/2019      | 151.58 X                  | 22892                | 8.274                | 769.0        | 33.6                 |                              |
|        |                          |                   |                 |                 | 151.02 X                  |                      |                      |              |                      |                              |
|        |                          |                   |                 |                 | 151.78                    |                      |                      |              |                      |                              |

*AE-02*

*AE-2*  
**A.E.E**

Page 1/1  
\*\*\*\*End of Report\*\*\*\*

FOR CIVIL Pro.

*R. K. R.*  
**R KARTHIK RECHAN**  
Authorized Signatory  
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